

EV Charger



Binary series Smart AC EV Charger

BRY-A22D7



High Performance

- Residential's first charging & discharging solution for vehicles with V2L function.
- Implement V2X solution through the integration of SolaX PV-ESS.
- Capable of 100% green energy.
- Automatic switch between single and three phases.
- Maximizing surplus green utilization in a zero-export system.



Assured Safety

- Current leakage protection.
- Smart dynamic load balance control.
- ISO Insulation verification on DC output cable.^④
- Decoupling of charge and discharge ensures the reliability.



Intelligent Design

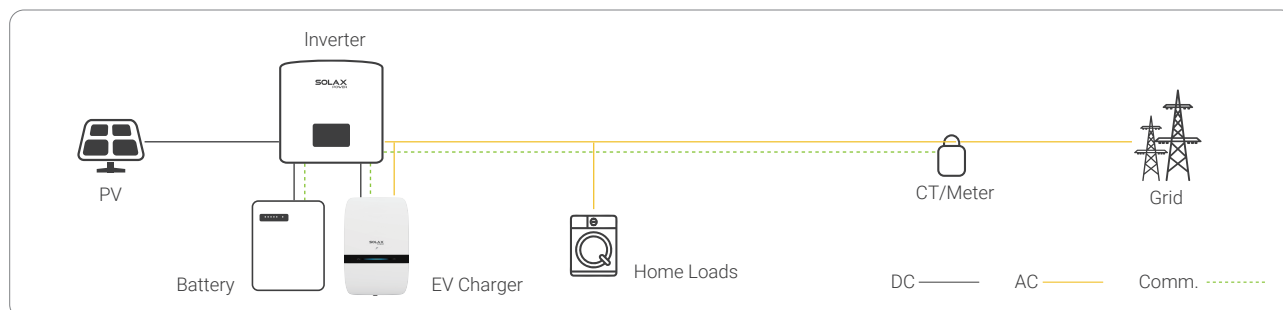
- Smart vehicle and RFID card management.
- Multi-time slot charging and discharging scheduling.
- Charging and discharging history management.



Flexible Adaptability

- The discharge function supports mainstream V2L electric vehicle models.
- Support multiple communication protocols.
- Support black start, the EV battery can be used as a backup power source for home.

Solutions



BRY-A22D7

AC NOMINAL INPUT	
Voltage	1Ph 230V / 3 Ph 400 V
Frequency	50 Hz / 60 Hz
Grounding type	TN, TT, IT ^①
AC NOMINAL OUTPUT	
Voltage	1Ph 230 V / 3Ph 400 V
Current	6-32 A
Power	1.4 ~ 22 kW ^②
DC NOMINAL OUTPUT ^③	
Voltage	400 V
Current	17.5 A
Power	7 kW ^② @ Voltage > 350 Vdc
INTERFACE & COMMUNICATION	
Communication interface	WiFi / Ethernet / CAN / DI / RS485
Protocol	OCPP 1.6j, Modbus TCP / RTU, Cloud API
Communcation	IEC 61851-1
Authentication	Plug & Charge / RFID (ISO-14443-A) / APP / Button
HMI	RGB LED / APP / Button
Remote control	APP & Web
Application	Residential
GENERAL DATA	
Housing material	PC
Installation method	Wall / Pedestal (optional)
Charging outlet	Type2 plug (IEC 62196)
Cable length	6.5 m
Discharge efficiency	≥95.3%(400Vdc,50% load) ≥94.3%(400Vdc, 50% load above)
Noise	Charging: Noiseless Discharging: ≤ 54 dB (A) @ 1m / 25 C
Operating temperature	-30 ~ 50 °C (discharging derating above ambient temperature 43 °C)
Storage temperature	-40~70 °C
Operation humidity	5% ~ 95% RH (non-condensing)
Max. operation altitude	2000 m
Degree of protection	IP54 / IK10
Cooling method	Smart air cooling
Application site	Indoor / Outdoor
Weight	16.5 kg
Dimension (W x H x D)	376 × 562 × 128 mm
PROTECTION	
Multiple protection	Over/Under voltage protection, Overload protection, Shortcircuit protection, Current leakage protection, Grounding protection, Surge protection, Overtemperature protection, ISO Insulation verification on DC output cable (optional) ^④
Theft protection	Support theft protection with a padlock
Integral current leakage protection	Integrated current failure monitoring (30mA AC & 6mA DC)
Relay protection	Relay weld detection
Built-in PEN fault technology	According to BS 7671:2018 requirements ^⑤
Standards	IEC 61851-1:2017, IEC 62196-2:2016

① IT 1Ph 230V.

② The actual charging and discharging power depends on the EV-side.

③ The DC output of the charger needs to be connected to a compatible inverter.

④ BRY-MBOX is required for scenarios where the distance between the EVC and the inverter exceeds 20 meters.

⑤ Only for chargers sold in the UK region.